

Oral presentation

Prevalence of *Schistosoma mansoni* and It's association with hepatitis B in

Gummuiya Agricultural Scheme

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Abstract

The cross sectional study was conducted to determine the prevalence of *Schistosoma mansoni* infection and it's association with hepatitis B infection in residents of the Gummuiya scheme in the suburbs of Omdurman .

Faecal and urine samples from 225 individuals in the village of Baraka in Gummuiya Agricultural Scheme were examined for *S.mansoni* and *S.haematobium* eggs using modified Kato thick smear and tube centrifugation techniques . The prevalence of *S.mansoni* was found to be (25.3%).

A serosurvey of 128 subjects for hepatitis B surface antigen (HBsAg) was conducted. These subjects comprise 46 bilharzia patients , 38 negative controls from the study area and 44 negative controls from Khartoum

The sero-positivity of (HBsAg) in these groups was 30.4% , 7.8% and 11.3% respectively . The difference in the positivity was statistically significant. (chi –square = 6.55, =P <0.05 = 0.01049).

This result is indicative of the existence of an association between *S.mansoni* and hepatitis infection. The reasons underlying this association were uncertain but the immune status of the infected person seems to be the main reason.